

PERSONAL EXPENSE TRACKING APPLICATION

A PROJECT REPORT

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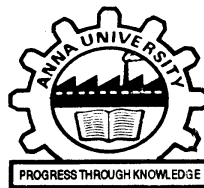
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BONAFIDE CERTIFICATE

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1. INTRODUCTION

1.1 Project overview

The project based on an expense and income tracking system. This project aims to create an easy, faster and smooth tracking system between the expense and the income. This project also offers some opportunities that will help the user to sustain all financial activities like digital automated diary. So, for the better expense tracking system, we developed our project that will help the users a lot. Most of the people cannot track their expenses and income one way they face a money crisis, in this case daily expense tracker can help the people to track income-expense day to day and making life tension free. Money is the most valuable portion of our daily life and without money we will not last one day on the earth. So using the daily expense tracker application is important to load a happy family. Daily expense tracker helps the user to avoid unexpected expenses and bad financial situation. This project will save time and provide a responsible lifestyle. This system is made and supervise by the experts and satisfying by the user. XML, JAVA, SQLite database, Android studio are used to develop the system. The system is tested by over 5 users, and 80% of them found the system useful.

1.2 Purpose

Also known as expense manager and money manager, an expense tracker is a software or application that helps to keep an accurate record of your money inflow and outflow. Many people in India live on a fixed income and they find that towards the end of the month they don't have sufficient money to meet their needs.

2. LITERATURE SURVEY

2.1 Existing Problem

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love. A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service

- ❖ Budgeting all my expense I don't have any expense tracker
- ❖ Do expense calculation without using calculator I don't have any idea about calculation without calculator

2.2 References

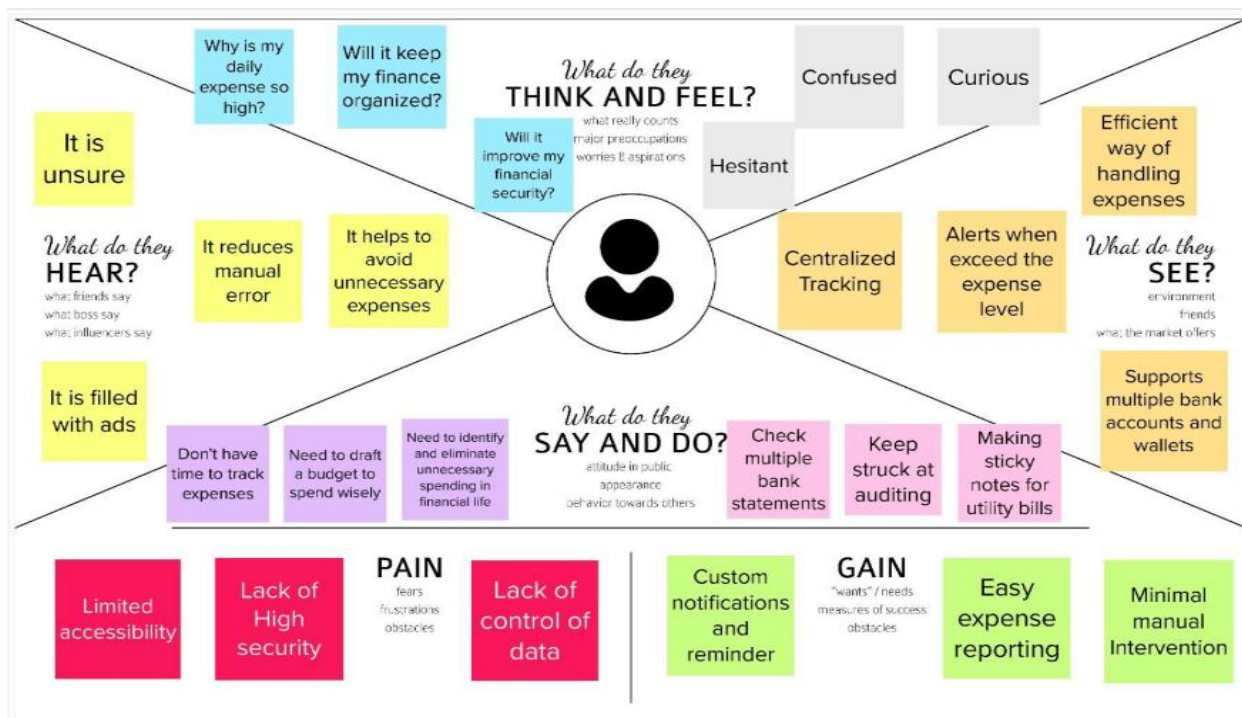
- https://ijariie.com/AdminUploadPdf/XTRA_STUDENT_EXPENSE_TRACKER_APPLICATION_ijariie16372pdf
- https://WWW_researchgate.net/publication/347972162_Expense_Manager_Application
- <https://ijarsct.co.in/paper391.pdf>

2.3 Problem Statement Definition


Many organizations have their own system to record their income and expenses, which they feel is the main key point of their business progress. It is good habit for a person to record daily expenses and earning but due to unawareness and lack of proper applications to suit their privacy, lacking decision making capacity people are using traditional note keeping methods to do so. Due to lack of a complete tracking system, there is a 2 constant overload to rely on the daily entry of the expenditure and total estimation till the end of the month.

3.IDEATION & PROPOSED SOLUTION

3.1Empathy Map Canvas



Step1:



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare

1 hour to collaborate

2-8 people recommended

→

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

A

Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

C

Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

Open article →

1


Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes


PROBLEM


The application doesn't make a precise and fast analysis of the user data.





Key rules of brainstorming


To run an smooth and productive session


 Stay in topic.

 Encourage wild ideas.

 Defer judgment.

 Listen to others.

 Go for volume.

 If possible, be visual.

Share template feedback

Step2:

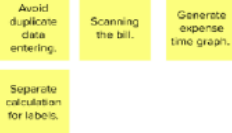
2

Brainstorm

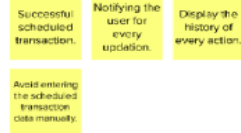
Write down any ideas that come to mind that address your problem statement.

10 minutes

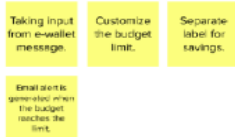
V. Swetha



G. Subash



M. Sanjay Aravindh



P. Sakthi Sri

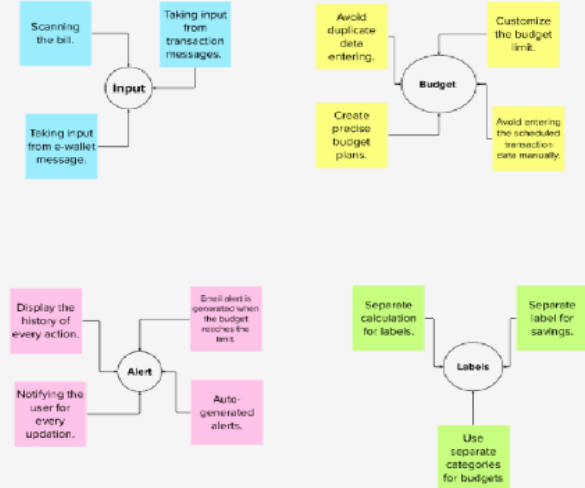


3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes



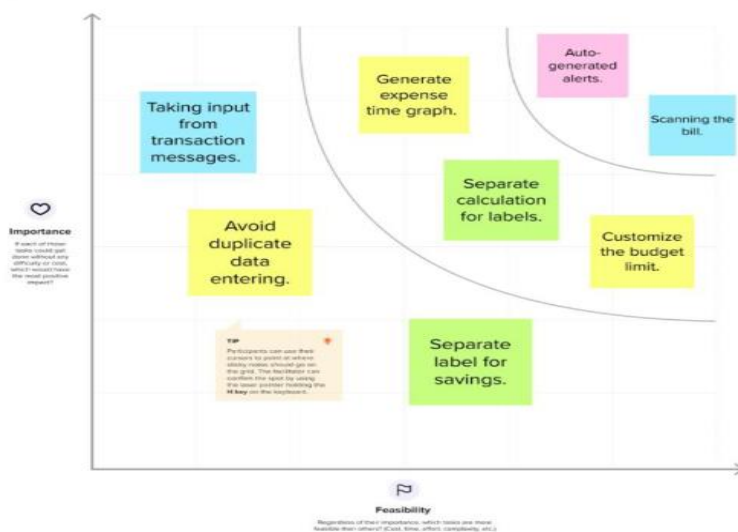
Step3:

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

30 minutes



5

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

1. **Share the mural**
Share a share link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
2. **Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save to your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template](#)

[Share template feedback](#)

3.3 PROPOSED SOLUTION

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement(Problem to be solved)	It is hard for a spendthrift employee who is trying to track his expenses and manage his finances efficiently to save money, but there is no web application available with extensive features as most of the existing ones are mobile applications and are devoid of recommendation features and prediction of unnecessary expenditure.
2.	Idea / Solution description	A personal expense tracker web application which will ask users to add their expenses and based on their expenses wallet balance will be updated which will be visible to the user. Also, users can get an analysis of their expenditure in graphical forms. A notification will be sent as a mail if the budget is crossed, paving the way for efficient money management.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> - Reminder feature for paying bills - AI features using IBM Watson (Chatbot) for Providing recommendations on efficient Money management - Family wise accountfor tracking expenditure - precious analytics for prediction
4	Social Impact/ Customer Satisfaction	<ul style="list-style-type: none"> - Helps people to track their expenses and cut Of necessary spending - Helps preventimpulse purchases saving more money - Helps manage the budget but allowing the User to allocate funds for recurring expenses - Remind users to pay the recurring bills reducing penalty fees - Efficient money management paving way for Adequate saving
5	Business Model (Revenue Model)	This application can support advertisements which can be a source of revenue for the issuers and in turn to remove the ads can make a small pricing for the customers.
6	Scalability of the Solution	This application can further be extended in terms of adding features where billing and taxations could be handled, with smart sensing of expenditure through automatic extraction of information from photographs of printed bills.

3.4 PROPOSED SOLUTION FIT

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)</div> <div>CS</div> <div>Customer manages their expenses in manual calculation and some tools.</div>	<div>6. CUSTOMER CONSTRAINTS</div> <div>CC</div> <div><div>What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.</div><div>Customer wants the application user friendly and more secure & fast.</div></div>	<div>5. AVAILABLE SOLUTIONS</div> <div>AS</div> <div><div>Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons?</div><div>The important solution that we suggest is if the expense amount limit exceeds. Alert E-Mail message will be sent.</div></div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE / PROBLEMS</div> <div>J&P</div> <div><div>Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.</div><div>It stores the account details and the contact details of the customer to perform the Expense Tracking application.</div></div>	<div>9. PROBLEM ROOT CAUSE</div> <div>RC</div> <div>Due to busy schedule of the customer difficult to track the expenses.</div>	<div>7. BEHAVIOUR</div> <div>BE</div> <div><div>What does your customer do to address the problem and get the job done? i.e. Directly related: find the right solar panel installer, calculate usage and benefits.</div><div>Focus on how it is easy to analyze customer's expense cost and plan accordingly.</div></div>	
Focus on J&P, tap into BE, understand RC	<div>3. TRIGGERS</div> <div>Customer Spending unwanted money by seeing some Neighbors, Television commercials etc.</div>	<div>10. YOUR SOLUTION</div> <div>This application keeps track on all your spending without a manual calculation. It works on anytime and anywhere. To minimize the human error, prevent data loss and secure transaction</div>	<div>8. CHANNELS of BEHAVIOUR</div> <div>ONLINE</div> <div>General budget tracking application is done by the customers in a number of web channels</div>	Focus on BE, understand RC
			<div>OFFLINE</div> <div>Customer can control them self in spending unnecessary money on certain things by using personal expense tracking application</div>	
Identify strong TR & EM	Identify strong TR & EM		Identify strong TR & EM	

4.REQUIREMENT ANALYSIS

4.1 Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story/Sub Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through Mobile Number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Authentication	Authenticate via password or OTP.
FR-4	Permission To Notify	Permission via Messages.
FR-5	Handles Documents	Handle via PDF.
FR-6	Tracks Receipts	Track via Mobile Phones.

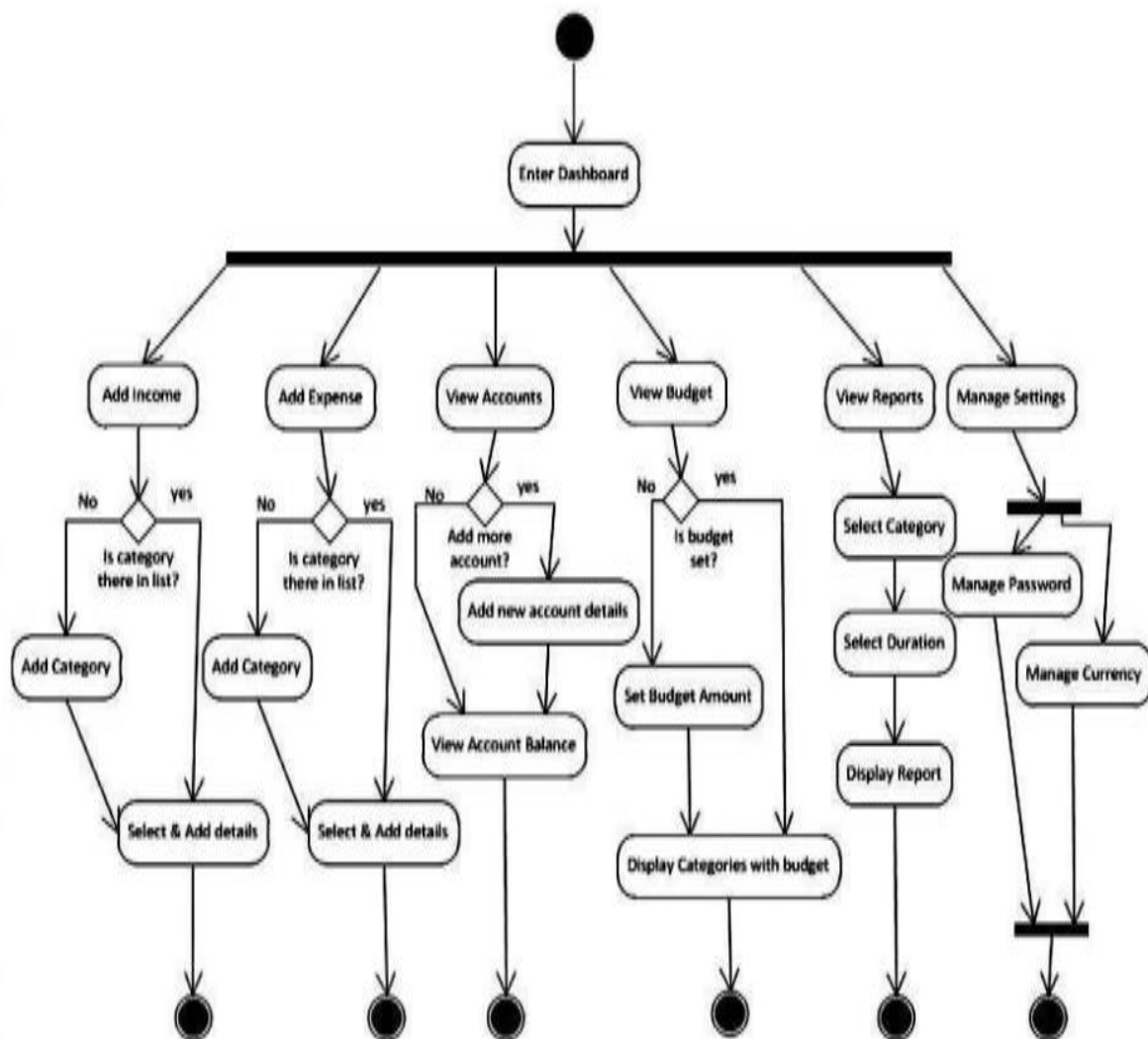
4.2 Non Functional Requirements

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Track the Expenses.
NFR-2	Security	Confidential Password.
NFR-3	Reliability	A mobile device to access the application anytime and anywhere.
NFR-4	Performance	Stable network connection.
NFR-5	Availability	Good internet connection.
NFR-6	Scalability	The expense limits are scalable based on the user needs

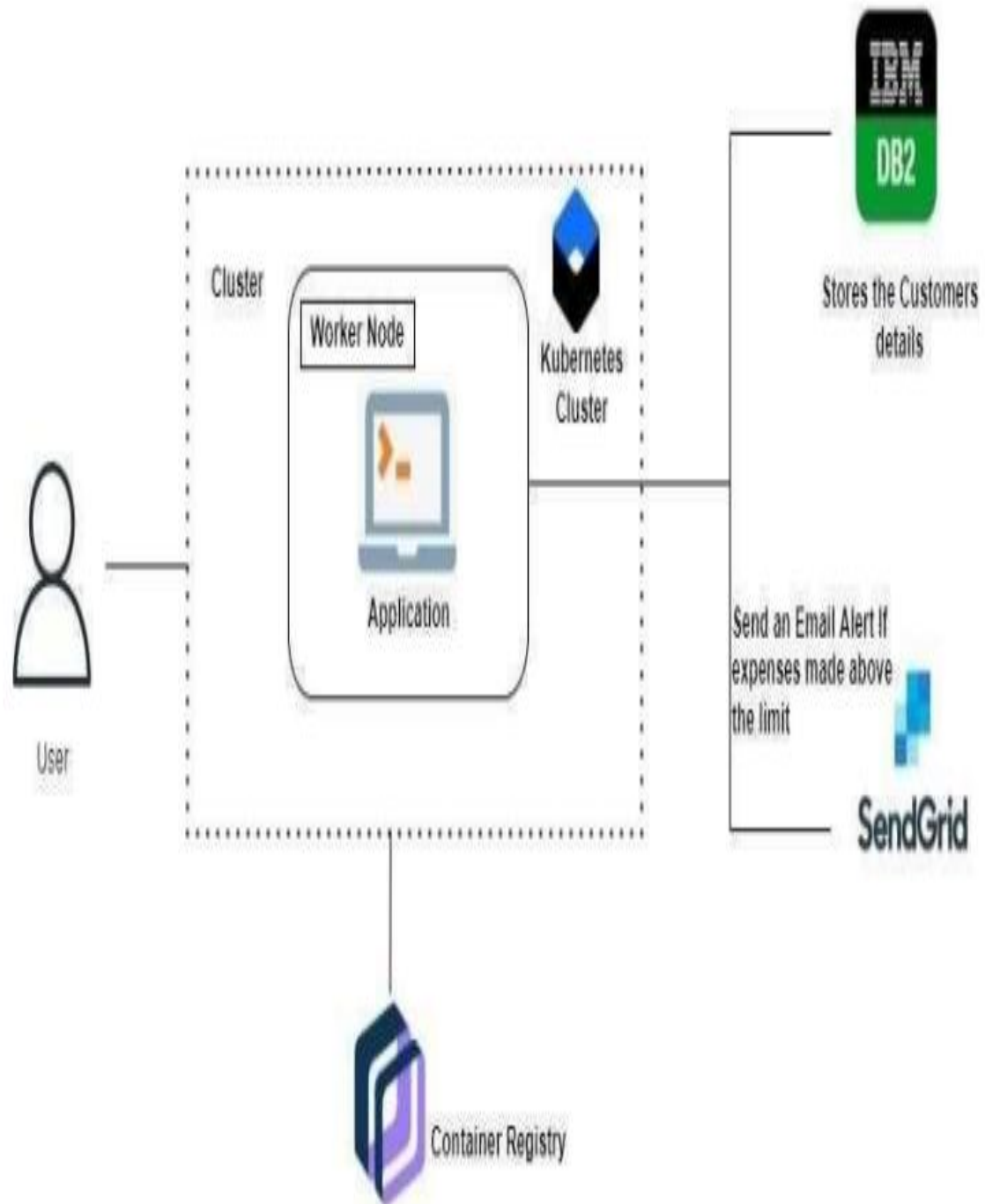
5. PROJECT DESIGN

5.1 Data Flow Diagrams

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



5.2 Solution & Technical Architecture



5.3 User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application.		High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook.		Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail.		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password.		High	Sprint-1
	Dashboard	USN-6	As a user I can enter my income and expenditure details.		High	
Customer Care Executive		USN-7	As a customer executive, I can solve the login issue and other issues of the application.		High	
Administrator		USN-8	As an Administrator I can upgrade or update the application.		Medium	

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story/ Task	Story Points	Priorit y	Team Members
Sprint-1	Homepage	USN-1	AS a user I can view the index page to see the about of the Expense tracker	10	High	Gowsalya
Sprint-1	Registration	USN-2	As a User, I need to register user id and passcode for every workers over there in municipality	10	High	Mareeswari
Sprint-1	Login	USN-3	As a user, I need to login with user id and password to get in to the website	10	High	Bhuvaneshwar i
H	Dashboard	USN-4	As a user, I need to login with user id and password to get in to the website time	20	Low	Mareeswari Gowsalya
Sprint-3	Add Expenses	USN-5	As a User I will add my expense throughout the month I spend on	20	Medium	Bhuvaneshwar i Mareeswari
Sprint-3	Total Expenses Graph	USN-6	As a User I can view my expense in a graph of overview of the expense I spend.	20	Medium	Gowsalya
Sprint-4	Deployment in Cloud	USN-7	As a User I can access the cloud to store my data of expense	20	High	Bhuvaneshwar i Mareeswari Gowsalya

6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6Days	23 Oct 2022	28 Oct 2022	20	18 Nov 2022
Sprint-2	20	6Days	30 Oct 2022	04 Nov 2022	20	5 Nov 2022
Sprint-3	20	6Days	06 Nov 2022	11 Nov 2022	20	18 Nov 2022
Sprint-4	20	6Days	13 Nov 2022	18 Nov 2022	20	19 Nov 2022

Velocity:

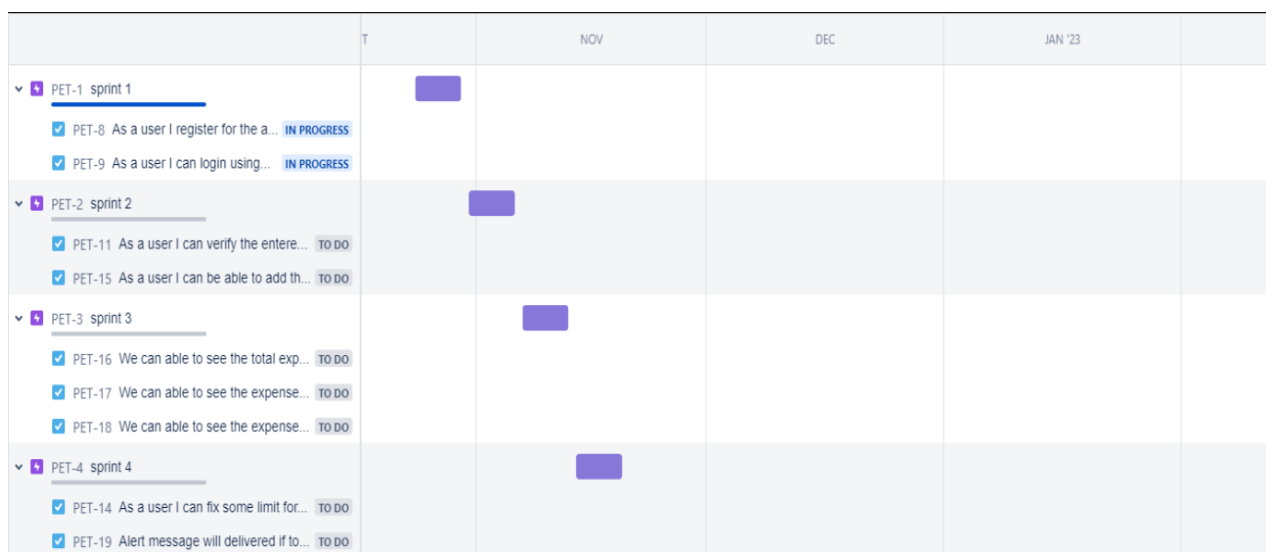
$$AV = \text{Sprint Duration} / \text{Velocity}$$

$$= 20 / 10$$

$$= 2$$

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)*

6.3 Reports From JIRS



7.CODING & SOLUTIONING

7.1 Feature - Add Expense

This feature allows the user to add an expense, it takes in the amount spent, the date of the expense, the category under which the expense falls and the group to which the expense belongs. It also takes an optional description for the expense.

7.2 Feature - Update Wallet

This feature allows the user to update the wallet amount. This is useful, for example to reflect the receiving of salary.

7.3 Feature – Dashboard

This allows the user to view the most recent expenses made. It displays each expense along with its details. It is also the home page which the user sees on logging in.

7.4 Feature - Set Monthly Limit

This allows the user to set a limit on how much is spent in a given month. This can be changed. If the user's expenses exceeds the monthly limit, then a warning email is sent to the user.

7.5 Feature - Add Category

This feature allows the user to add his/her own categories. This allows for high customizability.

7.7 Feature - Add Recurring/Periodic Expenses

This feature allows the user to add an expense that is recurring for every month. This is useful, for example, to model bills that need to be paid.

8.TESTING

8.1 Test Cases

- ❖ Verify that the user is able to login successfully on entering appropriate credentials.
- ❖ The UI elements, such as the card for the login, the button to submit etc are functional and are rendered properly in all devices.
- ❖ Users who enter invalid credentials will not be redirected to the dashboard ' Verify that users are able to register themselves to the application.
- ❖ The UI elements, such as the card for the registration, the button to submit etc are functional and are rendered properly in all devices.
- ❖ The user should not be able to register successfully if any of the fields are left empty.
- ❖ The user should receive the email from nunnaaarthi@gmail.com, stating a ' successfully registration.
- ❖ "The UI part of the dashboard, the side navbar, the logout option, the cards showing various expenses, and the
- ❖ wallet edit icon must be functioning and rendered properly" The UI part of the add expense page must be rendered and functioning.
- ❖ "The user must be able to add an expense. "
- ❖ The user should not be able to add the same Expense again.
- ❖ The UI which contains 2 graphs must be rendered properly.
- ❖ The user must be able to view the analysis of their expenses.
- ❖ The UI is rendered properly and the various components are functioning properly.
- ❖ The UI is rendered properly and the various components are functioning properly.
- ❖ This page allows the user to view the recurring expenses that he or she has created using the add recurring expense page.
- ❖ The user must be able to view their existing rewards and goals .

- ❖ They can also use the add reward and goal icon to add the reward and goal.
- ❖ The user must be able to add a reward and goal.
- ❖ The user must be able to view their existing rewards and goals in a properly rendered manner.
- ❖ The user must be able view the UI components to add a goal in the appropriate manner.
- ❖ The user must be able to create a new category for themselves.
- ❖ The UI components of the add category page is rendered properly and functions appropriately.
- ❖ The user views the expense cards, and clicks on a particular card's edit icon to modify the expense
- ❖ The user views the expense cards displaying the expenses available to edit.

9. ADVANTAGES & DISADVANTAGES

Advantages

- An added expense can also be modified. Hence an error that is made while adding an expense is easily rectified.
- Rewards and goals may be used to motivate the user to spend less.
- The expenses can be analysed to understand the patterns of expenditure.
- Recurring expenses can be added to model bills and such.
- Categories can be added for higher customizability.

Disadvantages

- Complex analysis based on categories is not supported.
- Limits cannot be imposed on arbitrary periods of time, but only on a single month.
- Recurring expenses have a period of exactly one month, which is not customizable.
- It requires the user to manually enter expense information accurately.
- The user is the one who is responsible for rewarding himself on the completion of a goal.

10. CONCLUSION

A Personal Expense Tracker supporting myriad features has been designed and implemented using IBM cloud-based tools such as DB2, IBM Object Storage, etc. SendGrid is used to send mails to users. Docker and Kubernetes are used for deployment of the application.

11. FUTURE SCOPE

Future avenues of work in this application would include:

- Design and implementation of complex analyses based on various parameters such as categories, groups, etc.
- Prediction of expenses based on machine learning.
- Adding support for limits imposed on arbitrary periods of time.
- Adding support for recurring expenses that have a user-specified period.
- Having the application itself reward the user for accomplishment of various goals, such as coupons, vouchers, etc.

12. APPENDIX

12.1 Source Code

Login page:

```
<?php require_once('./config.php') ?>

<!DOCTYPE html>

<html lang="en" class="" style="height: auto;">

<?php require_once('inc/header.php') ?>

<body class="hold-transition login-page bg-navy">

<script>

start_loader()

</script>

<h2 class="text-center mb-4 pb-3"><?php echo $_settings->info('name')

?></h2>

<div class="login-box">

<!-- /.login-logo -->
```

```
<div class="card card-outline card-primary">

<div class="card-body">

<p class="login-box-msg text-dark">Sign in to start your session</p>

<form id="login-frm" action="" method="post">

<div class="input-group mb-3">

<input type="text" class="form-control" name="username"

placeholder="Username" autofocus>

<div class="input-group-append">

<div class="input-group-text">

<span class="fas fa-user"></span>

</div>

</div>

</div>

</div>

<div class="input-group mb-3">

<input type="password" class="form-control" name="password"

placeholder="Password">

<div class="input-group-append">

<div class="input-group-text">

<span class="fas fa-lock"></span>

</div>

</div>

</div>

<div class="row justify-content-center">

<!-- /.col -->
```

```
<button type="submit" class="btn btn-primary btn-block">Sign  
In</button>  
  
<!-- /.col -->  
  
</div>  
  
<div class="link login-link text-center">Don't have an account? <a  
href="signup.php">Signup now</a></div>  
  
</form>  
  
<!-- /.social-auth-links -->  
  
<p class="mb-1">  
<a href="forgot-password.html">I forgot my password</a>  
</p> -->  
  
</div>  
  
<!-- /.card-body -->  
  
</div>  
  
<!-- /.card -->  
  
</div>  
  
<!-- /.login-box -->  
  
<!-- jQuery -->  
  
<script src="plugins/jquery/jquery.min.js"></script>  
  
<!-- Bootstrap 4 -->  
  
<script src="plugins/bootstrap/js/bootstrap.bundle.min.js"></script>  
  
<!-- AdminLTE App -->  
  
<script src="dist/js/adminlte.min.js"></script>  
  
<script>  
$(document).ready(function() {
```

```
end_loader();
```

```
})
```

```
</script>
```

```
</body>
```

```
</html>
```

Signup Page:

```
<?php require_once "controllerUserData.php"; ?>
```

```
<!DOCTYPE html>
```

```
<<style> body { backgroundimage:url('pics/login.jpg');
```

```
background-repeat:no-repeat;
```

```
background-size:cover;
```

```
}
```

```
</style>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Signup Page</title>
```

```
<link rel="stylesheet"
```

```
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```
<link rel="stylesheet" href="stylesheet.css">
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<div class="row">
```

```
<div class="col-md-4 offset-md-4 form">
```

```
<form action="signup.php" method="POST" autocomplete="">
```

```
<h2 class="text-center">Signup </h2>
```

```
<p class="text-center">Enter Details</p>
```

```
<?php
```

```
if(count($errors) == 1){
```

```
?>
```

```
<div class="alert alert-danger text-center">
```

```
<?php
```

```
foreach($errors as $showerror){
```

```
echo $showerror;
```

```
}
```

```
?>
```

```
</div>
```

```
<?php
```

```
}elseif(count($errors) > 1){
```

```
?>
```

```
<div class="alert alert-danger">
```

```
<?php
```

```
foreach($errors as $showerror){
```

```
?>
```

```
<li><?php echo $showerror; ?></li>
```

```
<?php
```

```
}
```

```
?>
```

```
</div>
```

```
<?php
```



```
}
```

```
?>
```

```
<div class="form-group">
```

```
<input class="form-control" type="text" name="name"
```

```
placeholder="Full Name" required value="<?php echo $name ?>">
```

```
</div>
```

```
<div class="form-group">
```

```
<input class="form-control" type="email"
```

```
name="email" placeholder="Email Address" required value="<?php echo
```

```
$email ?>">
```

```
</div>
```

```
<div class="form-group">
```

```
<input class="form-control" type="password" name="password"
```

```
placeholder="Password" required>
```

```
</div>
```

```
<div class="form-group">
```

```
<input class="form-control" type="password" name="cpassword"
```

```
placeholder="Confirm password" required>
```

```
</div>
```

```
<div class="form-group">
```

```
<input class="form-control button" type="submit" name="signup"
```

```
value="Signup">
```

```
</div>
```

```
<div class="link login-link text-center">Already have an account? <a
```

```
href="login.php">Login here</a></div>
```

```
</form>

</div>

</div>

</div>

</body>

</html> Index:

<?php require_once(' ../config.php'); ?>

<!DOCTYPE html>

<html lang="en" class="" style="height: auto;">

<?php require_once('inc/header.php') ?>

<body class="sidebar-mini layout-fixed control-sidebar-slide-open layoutnavbarfixed
sidebar-mini-md sidebar-mini-xs" data-new-gr-c-s-checkloaded="14.991.0" data-gr-ext-
installed="" style="height: auto;">

<div class="wrapper">

<?php require_once('inc/topBarNav.php') ?>

<?php require_once('inc/navigation.php') ?>


<?php $page = isset($_GET['page']) ? $_GET['page'] : 'home'; ?>

<!-- Content Wrapper. Contains page content -->

<div class="content-wrapper pt-3" style="min-height: 567.854px;">


<!-- Main content -->

<section class="content text-dark">

<div class="container-fluid">

<?php if(!file_exists($page.".php")) &&
!is_dir($page)){ include '404.html';
```

```
}else{

if(is_dir($page)) include

$page.'/index.php'; else

include $page.'.php';

}

?>

</div>

</section>

<!-- /.content -->

<div class="modal fade" id="confirm_modal" role='dialog'>

<div class="modal-dialog modal-md modal-dialog-centered" role="document">

<div class="modal-content">

<div class="modal-header">

h5 class="modal-title"></h5>

<button type="button" class="close" data-dismiss="modal"

arialabel="Close">

<span class="fa fa-arrow-right"></span>

</button>

</div>

<div class="modal-body">

</div>

</div>

</div>

</div>

<div class="modal fade" id="viewer_modal" role='dialog'>
```

```

<div class="modal-dialog modal-md" role="document">

<div class="modal-content">

<button type="button" class="btn-close" data-dismiss="modal"><span
class="fa fa-times"></span></button>

<img src="" alt="">

</div>

</div>

</div>

</div>

<!-- /.content-wrapper -->

<?php require_once('inc/footer.php') ?>

</body>

</html>

```

Config:

```

<?php

ob_start(); ini_set('date.timezone','Asia/Manila');

date_default_timezone_set('Asia/Manila');

session_start();

require_once('initialize.php'); require_once('classes/DBConnection.php');

require_once('classes/SystemSettings.php');

$db = new DBConnection;

$conn = $db->conn;

function redirect($url=""){

if(!empty($url))

echo '<script>location.href="'.base_url.$url.'"</script>';

```

```

} function

validate_image($file){

if(!empty($file)){

// exit;

if(is_file(base_app.$file)){

return base_url.$file;

}else{

return base_url.'dist/img/no-image-available.png';

}

}else{

return base_url.'dist/img/no-image-available.png';

}

}

function isMobileDevice(){

$aMobileUA = array(

    'iphone/i' => 'iPhone',

    'ipod/i' => 'iPod',

    'ipad/i' => 'iPad',

    'android/i' => 'Android',

    'blackberry/i' => 'BlackBerry',

    'webos/i' => 'Mobile'

);

//Return true if Mobile User Agent is detected foreach($aMobileUA as

$sMobileKey => $sMobileOS){ if(preg_match($sMobileKey,

$_SERVER['HTTP_USER_AGENT'])){ return true;

```

```

}

}

//Otherwise return false..

return false;

} ob_end_flush();

?>

```

Home:

```

<style>

.info-tooltip,.info-tooltip:focus,.info-tooltip:hover{

background:unset; border:unset;

padding:unset;

}

</style>

<h1>Welcome to <?php echo $_settings->info('name') ?></h1>

<hr>

<div class="row">

<div class="col-12 col-sm-6 col-md-3">

<div class="info-box">

<span class="info-box-icon bg-primary elevation-1"><i class="fas

famoney-bill-alt"></i></span>

<div class="info-box-content">

<span class="info-box-text">Current Overall Budget</span>

<span class="info-box-number text-right">

<?php

$cur_bul = $conn->query("SELECT sum(balance) as total FROM

```

```

`categories` where status = 1 ")->fetch_assoc()['total'];

echo number_format($cur_bul);

?>

<?php ?>

</span>

</div>

<!-- /.info-box-content -->

</div>

<!-- /.info-box -->

</div>

<!-- /.col -->

<div class="col-12 col-sm-6 col-md-3">

<div class="info-box mb-3">

<span class="info-box-icon bg-info elevation-1"><i class="fas fa-calendar-day"></i></span>

<div class="info-box-content">

<span class="info-box-text">Today's Budget Entries</span>

<span class="info-box-number text-right">

<?php

```

```

$today_budget = $conn->query("SELECT sum(amount) as total FROM

`running_balance` where category_id in (SELECT id FROM categories where status

=1) and date(date_created) = '".(date("Y-m-d"))."' and balance_type =

1 ")->fetch_assoc()['total']; echo

number_format($today_budget);

?>

```

```

</span>

</div>

<!-- /.info-box-content -->

</div>

<!-- /.info-box -->

</div>

<!-- /.col -->

<!-- fix for small devices only -->

<div class="clearfix hidden-md-up"></div>

<div class="col-12 col-sm-6 col-md-3">

<div class="info-box mb-3">

<span class="info-box-icon bg-warning elevation-1"><i class="fas
facalendar-day"></i></span>

<div class="info-box-content">

<span class="info-box-text">Today's Budget Expenses</span>

<span class="info-box-number text-right">

<?php

$today_expense = $conn->query("SELECT sum(amount) as total
FROM `running_balance` where category_id in (SELECT id FROM categories
where status =1) and date(date_created) = '".(date("Y-m-d"))."' and balance_type =
2 ")>fetch_assoc()['total']; echo
number_format($today_expense);

?>

</span>

</div>

```



```

<!-- /.info-box-content -->

</div>

<!-- /.info-box -->

</div>

</div>

<div class="row">

<div class="col-lg-12">

<h4>Current Budget in each Categories</h4>

<hr>

</div>

</div>

<div class="col-md-12 d-flex justify-content-center">

<div class="input-group mb-3 col-md-5">

<input type="text" class="form-control" id="search" placeholder="Search
Category">

<div class="input-group-append">

<span class="input-group-text"><i class="fa fa-search"></i></span>

</div>

</div>

</div>

<div class="row row-cols-4 row-cols-sm-1 row-cols-md-4 row-cols-lg-4">

<?php

$categories = $conn->query("SELECT * FROM `categories` where status = 1
order by `category` asc "); while($row = $categories->fetch_assoc()):

?>

```

```

<div class="col p-2 cat-items">

<div class="callout callout-info">

<span class="float-right ml-1">

<button type="button" class="btn btn-secondary info-tooltip"
datatoggle="tooltip" data-html="true" title='<?php echo
(html_entity_decode($row['description'])) ?>'>

<span class="fa fa-info-circle text-info"></span>

</button>

</span>

<h5 class="mr-4"><b><?php echo $row['category'] ?></b></h5>

<div class="d-flex justify-content-end">

<b><?php echo number_format($row['balance']) ?></b>

</div>

</div>

</div>

</div>

<?php endwhile; ?>

</div>

<div class="col-md-12">

<h3 class="text-center" id="noData" style="display:none">No
Data to display.</h3>

</div> <script> function
check_cats(){ if($('.catitems:visible').length > 0){

$('#noData').hide('slow')

}else{

$('#noData').show('slow')

```

```

    }

    }

    $(function(){

    $('[data-toggle="tooltip"]').tooltip({

    html:true

    })

    check_cats()

    $('#search').on('input',function(){

    var _f = $(this).val().toLowerCase()

    $('.cat-items').each(function(){ var

    _c = $(this).text().toLowerCase()

    if(_c.includes(_f) == true)

    $(this).toggle(true); else

    $(this).toggle(false);

    })

    check_cats()

    })

    })

</script>

```

Manage Expense:

```

<?php require_once("../config.php");

if(isset($_GET['id']) && $_GET['id'] > 0){

    $qry = $conn->query("SELECT * from `running_balance` where id =

    '{$_GET['id']}' "); if($qry->num_rows > 0){

    foreach($qry->fetch_assoc() as $k => $v){

```

```

$$k=stripslashes($v);

}

}

}

?>

<div class="container-fluid">

<form action="" id="expense-form">

<input type="hidden" name ="id" value="<?php echo isset($id) ? $id : " ?>">

<input type="hidden" name ="balance_type" value="2">

<?php if(!isset($id)): ?>

<div class="form-group">

<label for="category_id" class="control-label">Category</label>

<select name="category_id" id="category_id" class="custom-select select2"
required>

<option value=""></option>

<?php

$qry = $conn->query("SELECT * FROM `categories` where `balance` > 0
order by category asc"); while($row= $qry->fetch_assoc()):

?>

<option value="<?php echo $row['id'] ?>" <?php echo isset($category_id) &&
$category_id == $row['id'] ? 'selected' : " ?> data-balance="<?php echo
$row['balance'] ?>"><?php echo $row['category'].
[" .number_format($row['balance'])."]" ?></option>

<?php endwhile; ?>

</select>

```

</div>

<?php else: ?>

<div class="form-group">

<label for="category_id" class="control-label">Category</label>

<input type="hidden" name="category_id" value="<?php
echo \$category_id ?>">

<?php

\$qry = \$conn->query("SELECT * FROM `categories` where id =
'{\$category_id}'");

\$cat_res = \$qry->fetch_assoc();

\$balance = \$cat_res['balance'] + \$amount;

?>

<p><?php echo \$cat_res['category'] ?> [<?php echo
number_format(\$balance) ?>]</p>

<input type="hidden" id="balance" value="<?php echo \$balance ?>">

</div>

<?php endif; ?>

<div class="form-group">

<label for="amount" class="control-label">Amount</label>

<input name="amount" id="amount" class="form-control form text-right
number" value="<?php echo isset(\$amount) ? (\$amount) : 0; ?>">

</div><?php else: ?>

<div class="form-group">

<label for="category_id" class="control-label">Category</label>

<input type="hidden" name="category_id" value="<?php

```

echo $category_id ?>">

<?php

$qry = $conn->query("SELECT * FROM `categories` where id =
'{$category_id}'");

$cat_res = $qry->fetch_assoc();

$balance = $cat_res['balance'] + $amount;

?>

<p><b><?php echo $cat_res['category'] ?> [<?php echo
number_format($balance) ?>]</b></p>

<input type="hidden" id="balance" value="<?php echo $balance ?>">

</div>

<?php endif; ?>

<div class="form-group">

<label for="amount" class="control-label">Amount</label>

<input name="amount" id="amount" class="form-control form text-right
number" value="<?php echo isset($amount) ? ($amount) : 0; ?>">

</div>

<div class="form-group">

<label for="remarks" class="control-label">Remarks</label>

<textarea name="remarks" id="" cols="30" rows="2" class="form-control
form no-resize summernote"><?php echo isset($remarks) ? $remarks : "";
?></textarea>

</div>

</form>

</div>

```

<script>

```
$(document).ready(function(){

    $('#select2').select2({placeholder:"Please Select here",width:"relative"})

    $('#number').on('load input change',function(){

var txt = $(this).val() var p =

(txt.match(/[.]/g) || []).length;

console.log(p) if(txt.slice(-1) == '.' && p

> 1){ $(this).val(txt.slice(0,-1))

return false;

    } if(txt.slice(-1) == '.'){

txt = txt }else{ txt = txt.split('.')

ntxt = ((txt[0]).replace(/\D/g,"")); if(!txt[1])

ntxt += "."+txt[1] ntxt = ntxt > 0 ? ntxt : 0;

txt = parseFloat(ntxt).toLocaleString('en-US')

    }

    $(this).val(txt)

    })

    $('#number').trigger('change')

    $('#expense-form').submit(function(e){

e.preventDefault();

    var _this = $(this)

    $('#err-msg').remove();

    $('[name='amount']").removeClass("border-danger")

start_loader();
```

```

var cat_id = $("[name='category_id']").val(); var cat_balance =
$('#balance').length > 0 ? $('#balance').val() :
$("[name='category_id'] option[value='"+cat_id+"']").attr('data-balance');
var amount = $("[name='amount']").val(); amount =
amount.replace(/,/g, ""); console.log(cat_balance,amount)
console.log(amount > cat_balance) if(parseFloat(amount) >
parseFloat(cat_balance)){ var el = $('<div>')
el.addClass("alert alert-danger err-msg mt-2").text("Entered Amount is greater
than the selected category balance.") $("[name='amount']").after(el)
el.show('slow')
$("[name='amount']").addClass("border-danger").focus()
end_loader(); return false;
}
$.ajax({
url:_base_url_+"classes/Master.php?f=save_expense",
data: new FormData($(this)[0]), cache: false,
contentType: false, processData: false, method: 'POST',
type: 'POST', dataType: 'json',
error:err=>{
console.log(err)
alert_toast("An error occurred",'error');
end_loader();
},
success:function(resp){
if(typeof resp =='object' && resp.status ==

```



```

'success'){

location.reload()

}else if(resp.status == 'failed' && !!resp.msg){

var el = $('<div>') el.addClass("alert alert-danger errmsg").text(resp.msg)

_this.prepend(el)

el.show('slow')

$("html, body").animate({ scrollTop:

_this.closest('.card').offset().top }, "fast");

end_loader()

}else{

alert_toast("An error occurred",'error');

end_loader();

console.log(resp)

}

}

})

}

})

</script>

```

Manage Budget:

```

<?php require_once("../config.php");

if(isset($_GET['id']) && $_GET['id'] > 0){

$qry = $conn->query("SELECT * from

`running_balance` where id =

'".$_GET['id']."'"); if($qry->num_rows > 0){

```

```

foreach($qry->fetch_assoc() as $k => $v){

    $$k=stripslashes($v);

}

}

}

?>

<div class="container-fluid">

<form action="" id="budget-form">

    <input type="hidden" name ="id" value="<?php echo isset($id) ? $id : " ?>">

    <input type="hidden" name ="balance_type" value="1">

    <?php if(!isset($id)): ?>

    <div class="form-group">

    <label for="category_id" class="control-label">Category</label>

    <select name="category_id" id="category_id" class="custom-select select2"
required>

    <option value=""></option>

    <?php

    $qry = $conn->query("SELECT * FROM `categories` order by category
asc"); while($row= $qry->fetch_assoc()):

    ?>

    <option value="<?php echo $row['id'] ?>" <?php echo isset($category_id)
&& $category_id == $row['id'] ? 'selected' : " ?> data-balance="<?php echo
$row['balance'] ?>"><?php echo $row['category'] ?></option>

    <?php endwhile; ?>

</select>

```

</div>

<?php else: ?>

<div class="form-group">

<label for="category_id" class="control-label">Category</label>

<input type="hidden" name="category_id" value="<?php

echo \$category_id ?>">

<?php

\$qry = \$conn->query("SELECT * FROM `categories` where id =

'{\$category_id}')");

\$cat_res = \$qry->fetch_assoc();

?>

<p><?php echo \$cat_res['category'] ?></p>

</div>

<?php endif; ?>

<div class="form-group">

<label for="amount" class="control-label">Amount</label>

<input name="amount" id="amount" class="form-control form text-right

number" value="<?php echo isset(\$amount) ? (\$amount) : 0; ?>">

</div>

<div class="form-group">

<label for="remarks" class="control-label">Remarks</label>

<textarea name="remarks" id="" cols="30" rows="2" class="form-control

form no-resize summernote"><?php echo isset(\$remarks) ? \$remarks : "";

?></textarea>

</div>

</form>

</div>

<script>

```
$(document).ready(function(){
```

```
$('.select2').select2({placeholder:"Please Select here",width:"relative"})
```

```
$('.number').on('load input change',function(){
```

```
var txt = $(this).val() var p =
```

```
(txt.match(/[.]/g) || []).length;
```

```
console.log(p)
```

```
if(txt.slice(-1) == '.' && p > 1){
```

```
$(this).val(txt.slice(0,-1)) return
```

```
false;
```

```
 } if(txt.slice(-1) == '.'){
```

```
txt = txt }else{ txt = txt.split('.')
```

```
ntxt = ((txt[0]).replace(/\D/g,"")); if(!txt[1])
```

```
ntxt += "."+txt[1] ntxt = ntxt > 0 ? ntxt : 0;
```

```
txt = parseFloat(ntxt).toLocaleString('en-US')
```

```
}
```

```
$(this).val(txt)
```

```
})
```

```
$('.number').trigger('change')
```

```
$('#budget-form').submit(function(e){
```

```
e.preventDefault();
```

```
var _this = $(this)
```

```

        $('err-msg').remove();

start_loader();

$.ajax({

url:_base_url_+"classes/Master.php?f=save_budget",

data: new FormData($(this)[0]), cache:

false, contentType: false, processData: false,

method: 'POST', type: 'POST',

dataType: 'json',

error:err=>{

console.log(err)

alert_toast("An error occurred", 'error');

end_loader();

},

success:function(resp){

if(typeof resp == 'object' && resp.status ==

'success'){

location.reload()

}else if(resp.status == 'failed' && !!resp.msg){

var el = $('<div>') el.addClass("alert alert-danger errmsg").text(resp.msg)

_this.prepend(el)

el.show('slow')

$("html, body").animate({ scrollTop:

_this.closest('.card').offset().top }, "fast");

end_loader()

}else{

```

```
alert_toast("An error occurred",'error');  
  
end_loader();  
  
console.log(resp)  
  
}  
  
}  
  
})  
  
})  
  
})  
  
</script>
```

GitHub & Project Demo Link

<https://github.com/IBM-EPBL/IBM-Project-49600-1660828811.git>